

REMARKS

Status Summary

Claims 1-9 are pending in the present application and claims 1-9 stand rejected. Claim 1 has been amended. Reconsideration of the application based on the arguments set forth hereinbelow is respectfully requested.

Interview Summary

Applicant conducted telephonic interviews with Examiner Qutbuddin Ghulamali on August 29, 2008. Participating in the telephonic interview was applicant's attorney, David M. Sigmon. Applicant sincerely appreciates the time and consideration of Examiner Ghulamali in agreeing to and participating in the telephonic interviews. In the interview, the most recent Office Action and independent claim were discussed. It is applicant's understanding that no agreement was reached between the applicant and Examiner Ghulamali during the telephonic interviews. Applicant respectfully submits that the amendments and remarks presented herein are believed to be consistent with and also summarize the positions presented by the parties during the telephonic interviews.

Claim Rejections Under 35 U.S.C. § 103

Claims 1-9 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,744,812 to Anne et al. (hereinafter, "Anne"). These rejections are respectfully traversed.

Claim 1 recites a codec circuit having a programmable digital bandpass filter for matching the filter characteristics of the codec circuit to a transmitted PCM signal. Further, claim 1 recites at least one programmable digital high-pass filter and at least one programmable digital low-pass filter connected in series. Claim 1 has been amended to recite that the codec circuit has a signal identification device configured to identify a type of modulation and transmission speed of a transmitted PCM signal that consists of a PCM signal transmitted within the codec circuit. Claim 1 has also been amended to recite that the signal identification device is configured to set filter coefficients for the at least one programmable digital high pass filter and the at least one programmable digital low pass filter based on the identified type of modulation and transmission speed of the transmitted PCM signal to vary a bandpass filter characteristic for the programmable digital bandpass filter.

It is respectfully submitted that all these features recited in claim 1 are not disclosed or taught by Anne. For example, Anne does not disclose that the codec circuit has a signal identification device configured to identify the type of modulation and transmission speed of a transmitted PCM signal that consists of a PCM signal transmitted within the codec circuit. Also, Anne does not disclose that the signal identification device is configured to set filter coefficients for the programmable digital high pass and low pass filters based on the identified type of modulation and transmission speed of the transmitted PCM signal to vary a bandpass filter characteristic for the programmable digital bandpass filter.

Anne does disclose a modulation selection routine **432**, which determines the appropriate modulation technique by communicating with a host processor **106** in computer system **100**. (See Anne, Column 16, lines 3-5.) Thus, the modulation selection routine **432** must receive the identification signal by an additional communication path from the host processor that is outside of the codec circuit.

In contrast, the signal identification device of the codec circuit recited in claim 1 identifies the type of modulation and transmission speed of a transmitted PCM signal that consists of a PCM signal transmitted within the codec circuit. Thus, as recited in claim 1, the codec circuit identifies the type of modulation and transmission speed of signal itself without input from an outside host computer into the codec circuit as required by Anne.

Further, Anne does not disclose that the signal identification device is configured to set filter coefficients for the high pass and low pass filters based on the identified type of modulation and transmission speed of the PCM signal transmitted within the codec circuit. To bandpass filter in Anne, the codec circuit must communicate with an outside host computer. As now clearly recited in amended claim 1, the signal identification device is configured to set filter coefficients based on the identified type of modulation and transmission speed of the PCM signal transmitted within the codec circuit to vary a bandpass filter characteristic for the programmable digital bandpass filter.

Accordingly, it is respectfully submitted that Anne does not teach or suggest all of the elements recited by claim 1. As a result, applicant respectfully requests that the

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rejection of claim 1 under 35 U.S.C. §103(a) be withdrawn and the claim allowed at this time.

Claims 2-9 depend upon claim 1. Therefore, the comments presented above relating to claim 1 apply equally to claims 2-9. Accordingly, for the reasons provided above for claim 1, applicant respectfully requests that the rejection of claims 2-9 under 35 U.S.C. § 103(a) be withdrawn and the claims allowed at this time.

CONCLUSION

In light of the above Remarks, it is respectfully submitted that the present application is now in proper condition for allowance, and an early notice to such effect is earnestly solicited.

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Official Action.

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DEPOSIT ACCOUNT

The Commissioner is hereby authorized to charge any additional fees associated with the filing of this correspondence to Deposit Account No. **50-0426**.

Respectfully submitted,

JENKINS, WILSON, TAYLOR & HUNT, P.A.

Date: October 21, 2008

By: Richard E Jenkins
Richard E. Jenkins
Registration No. 28,428
Customer No: 25297

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